

EXPRESS MAIL LABEL NO. EV 402900025 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Kyle A. Brownell, et al.
Serial No.:
Filed: Herewith
Examiner:
Group Art Unit:
Docket No.: 410193.90155
Title: *Two Stage Air Filter*

**INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 CFR 1.97**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.97-1.98, Applicant is submitting a listing of documents on several Forms PTO-1449. In particular, a copy of each Form PTO-1449 submitted during the prosecution of the patent application from which the present patent application claims priority, listing the cited documents, is enclosed. Applicant further encloses herewith a copy of each non-U.S. Patent publication cited in the enclosed Forms PTO-1449.

Pursuant to MPEP §609, the submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any rights to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

Applicant is not commenting on the relevance of the identified references beyond the comments made along with the Supplemental IDS filed April 8, 2004 in the parent application, and further is not discharging the duty of the Examiner to review the cited references and draw his own conclusions regarding the degree of relevance of each reference with respect to the pending claims.

This information disclosure statement is being filed before the mailing of a first Office Action for the continuation application and, hence no fees should be due for this communication. Should there be any charges involved, the Commissioner is hereby authorized to charge Deposit Account No. 17-0055.

Applicant respectfully requests that the listed documents be considered by the Examiner, be made of record in the present application, and that an initialed copy of Form PTO-1449 be returned in accordance with MPEP §609.

Respectfully submitted,

Kyle A. Brownell

By: Adam J. Forman
Adam J. Forman
Reg. No. 46,707
Attorney for Applicant
Quarles & Brady
411 E. Wisconsin Avenue, Suite 2040
Milwaukee WI 53202-4497
(414) 277-5405

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/090,040
Filing Date	03/01/2002
First Named Inventor	Kyle A. Brownell
Art Unit	1742
Examiner Name	Robert A. Hopkins
Attorney Docket Number	410193 90155

Examiner Signature		Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.¹ Applicant's unique citation designation number (optional).² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.⁶ Applicant is to place a check mark here if English language Translation is attached.

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(Use as many sheets as necessary)

Sheet 1 of 1

Application Number	10/090,040
Filing Date	March 1, 2002
First Named Inventor	Kyle A. Brownell
Art Unit	1724
Examiner Name	Robert A. Hopkins

Attorney Docket Number 410193.90155

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (<i>if known</i>)			
1	US- 3,970,558		07-20-1976	Lee	
2	US- 4,610,705		09-09-1986	Sarnosky, et al.	
3	US- 4,708,000		11-24-1987	Besik	
4	US- 4,900,341		02-13-1990	Csabai	
5	US- 4,976,760		12-11-1990	Helperich, et al.	
6	US- 5,124,177		06-23-1992	Kasmark, Jr., et al.	
7	US- 5,171,720		12-15-1992	Kawakami	
8	US- 5,384,290		01-24-1995	Brezny	
9	US- 5,497,620		03-12-1996	Stobbe	
10	US- 5,567,392		10-22-1996	Becker, et al.	
11	US- 5,693,298		12-02-1997	Bar-Ilan	
12	US- 5,810,895		09-22-1998	Staehle, et al.	
13	US- 6,051,199		04-18-2000	Teller	
14	US- 6,165,519		12-26-2000	Lehrer, et al.	
15	US- 6,237,587		05-29-2001	Sparling, et al.	
	US-				

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (<i>if known</i>)				

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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number 10/090,040 Filing Date March 1, 2002 First Named Inventor Kyle A. Brownell Group Art Unit 1724 Examiner Name Attorney Docket Number 410193.90155	
Sheet		of	

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		Filing Date	Mary 1, 2002
		First Named Inventor	Kyle A. Brownell
		Group Art Unit	1724
		Examiner Name	
Sheet	1	of	1
		Attorney Docket Number	410193.90155

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	10/090,040
		Filing Date	March 1, 2002
		First Named Inventor	Brownell, et al.
		Group Art Unit	1724
		Examiner Name	Robert A. Hopkins
Sheet	3	of	5
		Attorney Docket Number	410193.90155

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	5,776,354			van der Meer et al.	07/07/1998	
	5,810,895			Staeble et al.	09/22/1998	
	5,997,618			Schneider et al.	12/07/1999	
	6,010,558			Ackland	01/04/2000	
	6,077,335			Schneider et al.	06/20/2000	
	6,077,800			Takahashi et al.	06/20/2000	
	6,095,037			Savage et al.	08/01/2000	
	6,168,651			Tuma et al.	01/02/2001	
	6,340,379			Penth et al.	01/22/2002	
	6,432,177			Dallas et al.	08/13/2002	
	6,464,770			Palm et al.	10/15/2002	
	5,776,354			van der Meer et al.	07/07/1998	
	5,700,973			Siddiqui	12/23/1997	
	4,485,622			Takagi et al.	12/04/1984	
	5,632,889			Tharp	05/27/1997	
	6,605,648			James R. Johnson	08/12/2003	
	5,750,026			Gadkaree et al.	05/12/1998	
	5,766,458			Sekhar et al.	06/16/1998	
	4,388,086			Bauer et al.	06/14/1983	
	4,350,504			Diachuk	09/21/1982	

FOREIGN PATENT DOCUMENTS

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		First Named Inventor	Brownell, et al.
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		Number	Kind Code ² (if known)			
	4,126,433			Forssberg et al.	11/21/1978	
	6,641,788			Ogawa et al.	11/04/2003	
	5,145,648			Miyahara et al.	09/08/1992	
	5,976,221			Bowman et al.	11/02/1999	
	5,792,360			Alqar	08/11/1998	
	4,682,992			Fuchs	07/28/1987	
	6,074,177			Kobavashi et al.	06/13/2000	
	5,133,786			Anderson	07/28/1992	
	4,292,285			Nakao et al.	09/29/1981	
	5,145,648			Miyahara et al.	09/08/1992	
	6,010,558			Ackland	01/04/2000	
	5,628,916			Stevens et al.	05/13/1997	
	5,624,875			Nakanishi et al.	04/29/1997	
	5,567,090			Basak et al.	10/22/1996	
	5,512,088			McKenzie	04/30/1996	
	5,486,370			Bivens	01/23/1996	
	5,442,924			Tsai et al.	08/22/1995	
	5,404,799			Bivens	04/11/1995	
	5,209,887			Von Blucher et al.	05/11/1993	
	2003/0024393			Lim	02/06/2003	

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		First Named Inventor	Brownell, et al.
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		Examiner Name	Robert A. Hopkins
Sheet	5	of	5
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		Number-Kind Code ² (if known)			
		US- RE 34,636	06/14/1994	Bivens	
		US- 3,970,558	07/20/1976	Lee	
		US- 4,082,661	04/04/1978	Aoki et al.	
		US- 4,104,163	08/01/1978	Grutsch	
		US- 4,118,206	10/03/1978	Hagendoom	
		US- 4,172,031	10/23/1979	Hall et al.	
		US- 4,177,142	12/04/1979	Halbfoster	
		US- 4,231,768	11/04/1980	Seibert et al.	
		US- 4,238,334	12/09/1980	Halbfoster	
		US- 4,328,105	05/04/1982	Arbuckle	
		US- 4,485,622	12/04/1984	Takagi et al.	
		US- 4,595,509	06/17/1986	Fox et al.	
		US- 4,645,605	02/24/1987	Durham	
		US- 4,721,624	01/26/1988	Schumann	
		US- 4,805,525	02/21/1989	Bivens	
		US- 4,816,499	03/28/1989	Nomura et al.	
		US- 4,908,050	03/13/1990	Nagashima et al.	
		US- 5,003,693	04/02/1991	Atkinson et al.	
		US- 5,154,743	10/13/1992	Takato et al.	

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		GB 1,014,594	12/31/1965	Orlo Clair Norton		
		GB 1,255,268	12/01/1971	US Atomic Energy Comsn		
		DD 74,699	07/12/1970	Karl Winter		
		EP 1,238,679	09/11/2002	ENEA		
		WO 02/070105A2	09/12/2002	Johnson, James R.		

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Sheet	2	of	5
		Attorney Docket Number	
		410193.90155	

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		G. Elliott et al, "The increasing Use of Ceramic Filters in Air Pollution Control Applications," Filtr. Sep. Vol. 34 No. 4 pp. 331-335, 1997, Elsevier Science Ltd.	
		N. Singh et al., "Precess Design and Economic Analysis of a Ceramic Membrane System for Microfiltration of Com Starch Hydrolysate," Journal of Food Engineering, Vol. 38 No. 1 pp. 57-67, 1998, Elsevier Science Ltd.	

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